

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13 Oranges		Page 1 of 6
Title: Commodity Specific Requirements for Oranges		
Revision: 4	Replaces: 04/01/04	Effective: 10/01/04

1. Purpose:

To provide a listing of PDP identified required compounds for oranges.

2. Scope:

This standard operating procedure shall be followed by all laboratories analyzing oranges for PDP. This SOP shall be used in conjunction with SOP PDP-QC-13 which specifies procedures for selecting marker compounds and process controls and identifies PDP commodity groupings.

3. References:

- PDP Program Plan July through December 2004
- SOP PDP-QC-13, "Required Compounds, Marker Pesticides, Process Control Compounds, and PDP Commodity Groupings"
- Pesticide Chemical News Guide

4. Specific Procedures:

This standard operating procedure (SOP) represents minimum PDP requirements and is presented as a general guideline. Each laboratory shall have written procedures that provide specific details concerning how the procedure has been implemented in that laboratory.

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Compounds Required for Oranges Multi Residue Screens

Oranges Compound	Reported As	Pest Code	Priority
Acephate		204	3
Aldicarb		167	2
Aldicarb sulfone		168	2
Aldicarb sulfoxide		169	2
Aldrin		001	3
Allethrin		002	1
Azinphos methyl		042	3
Azoxystrobin ¹		ACX	3
Bendiocarb		658	2
BHC alpha		903	3
Bifenthrin		930	1
Bromacil		153	3
Buprofezin		B52	3
Carbaryl		102	2
Chlordane	Chlordane cis	173	3
	And Chlordane trans	172	
	Or Chlordanes total	014	
Chlorpyrifos		160	3
Cyfluthrin		781	1
Cyhalothrin, lambda	Cyhalothrin, lambda and	AEM	1
	cyhalothrin, lambda	AEN	
	epimer R157836, or		
	Cyhalothrin, lambda total	AEL	
	(L-cyhalothrin + R157836		
	epimer)		
DDD	DDD o,p'	909	3
	And/or DDD p,p'	908	
	Or DDD (total)	087	

¹ Required only on samples received by WA1 from CO, FL, MI, NY, OH, TX, WA, and WI. Analysis by CA1 on samples received from CA and MD is not required.

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Oranges Compound	Reported As	Pest Code	Priority
DDE	DDE o,p'	911	3
	And/or DDE p,p'	910	
	Or DDE (total)	300	
DDT	DDT o,p'	907	3
	And/or DDT p,p'	906	
	Or DDT (total)	022	
Deltamethrin (includes parent tralomethrin)		612	1
Diazinon		024	3
Diazinon O-analog		395	3
Dicofol	Dicofol o,p'	253	3
	And/or Dicofol p,p'	254	
	Or Dicofol (total)	047	
Dieldrin		028	3
Di flubenzuron ²		651	3
Dimethoate		171	3
Diuron ²		032	3
EPTC ¹		200	3
Esfenvalerate	Esfenvalerate+Fenvalerate (total combined)	ADE	1
Ethion		107	3
Ethion di oxon ¹		538	3
Ethion mono oxon		AAX	3
Fenamiphos		236	3
Fenamiphos sulfone		745	3
Fenamiphos sulfoxide ¹		746	3
Fenpropathrin		808	1
Fluridone		736	3
Heptachlor		044	3
Heptachlor epoxide		143	3

² Required only on samples received by CA1 from CA and MD. Analysis by WA1 on samples received from CO, FL, MI, NY, OH, TX, WA, and WI is not required.

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Oranges Compound	Reported As	Pest Code	Priority
Imazalil		604	2
Imidacloprid ²		967	2
Lindane (BHC Gamma)		050	3
Malathion		052	3
Malathion O-analog		208	3
Metalaxyl		607	3
Methamidophos		170	3
Methidathion		197	3
Methomyl		159	2
Naled	Dichlorvos	338	3
Napropamide		594	3
Norflurazon		596	3
Norflurazon desmethyl		720	3
Omethoate		178	3
ortho-Phenylphenol		083	3
Oxamyl		537	2
Oxydemeton methyl sulfone		245	3
Phosmet		165	3
Piperonyl butoxide		070	2
Prallethrin		ADC	1
Propargite		623	3
Propetamphos		636	3
Pyridaben		ABL	3
Pyriproxyfen		B24	3
Resmethrin		556	1
Simazine		149	3
Tetradifon		108	3
Thiabendazole		157	2
Thiazopyr ¹		B12	3
Trifloxystrobin		ADQ	3
Trifluralin		151	3

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9-22-04

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Revision 04

April 2004

Monitoring Programs Office

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- Changed priority levels to reflect current data needs
 - Removed 5-hydroxythiabendazole, oxamyl oxime, and thiophanate methyl
 - Changed reporting requirements for esfenvalerate/fenvalerate